

Abstract of the Disclosure:

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An apparatus admits gas into the primary coolant of a
pressurized water nuclear reactor having a coolant loop for a
5 liquid coolant, in particular water, to which hydrogen is to
be added. The coolant loop preferably includes a volume
equalization vessel for the coolant as well as at least one
high-pressure pump which admits coolant that has been
extracted from the coolant loop back into the coolant loop
10 again. An admission point for the hydrogen is located in a
suction line on the suction side of the high-pressure pump. A
measurement line on the pressure side of the high-pressure
pump communicates with the volume equalization vessel or with
a dewatering system. A device for measuring the hydrogen
15 content in the coolant is incorporated into the measurement
line. The measuring device is connected through a control
device to a control valve, with which the delivery of hydrogen
to the admission point can be controlled. The gas admission
apparatus assures an unequivocal, precisely maintained
20 hydrogen content in the coolant.

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